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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511,233	10/12/2004	William H Fleming	899-64967-07	2272	
	7590 03/08/2007 SPARKMAN, LLP		EXAMINER		
121 SW SALM		BELYAVSKYI, MICHAIL A			
SUITE 1600 PORTLAND, O	OR 97204		ART UNIT	PAPER NUMBER	
i Oli i Di i i Di			1644		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
31 D	DAYS	03/08/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.



			Application No.	Applicant(s)				
Office Action Summary			10/511,233	FLEMING ET AL.				
			Examiner	Art Unit				
			Michail A. Belyavskyi	1644				
Period for	- The MAILING DATE of this commun Reply	nication appe	ars on the cover sheet	with the correspondence ac	idress			
A SHC WHIC - Extens after S - If NO - Failure Any re	PRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE N sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply is specified above, the maximum st e to reply within the set or extended period for reply uply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DATES of 37 CFR 1.136 munication. tatutory period will y will, by statute, or	TE OF THIS COMMUN 6(a). In no event, however, may I apply and will expire SIX (6) M cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status		•						
	Responsive to communication(s) file	ed on						
<i>'</i> —	•		ection is non-final.					
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• -	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
4)[⊠]	Claim(s) <u>1-48</u> is/are pending in the	application.						
	la) Of the above claim(s) is/a	• •	n from consideration.					
	Claim(s) is/are allowed.							
•	Claim(s) is/are rejected.							
•	Claim(s) is/are objected to.							
·	Claim(s) <u>1-48</u> are subject to restricti	ion and/or el	ection requirement.					
Applicatio	on Papers							
	he specification is objected to by th	e Evaminer						
·	· · · · · · · · · · · · · · · · · · ·			o by the Examiner				
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including				FR 1 121(d)			
	The oath or declaration is objected to	_	•	• • •				
Priority u	nder 35 U.S.C. § 119							
•	Acknowledgment is made of a claim ☐ All b)☐ Some * c)☐ None of:	for foreign p	oriority under 35 U.S.C	. § 119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
;	2. Certified copies of the priority documents have been received in Application No							
;	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internation	onal Bureau	(PCT Rule 17.2(a)).		•			
* S	ee the attached detailed Office action	on for a list o	f the certified copies n	ot received.				
Attachment	, •							
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (F	DTO 049\		v Summary (PTO-413) o(s)/Mail Date				
- =	e of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO/SB/08)			f Informal Patent Application				
	No(s)/Mail Date		6) 🔲 Other: _	·				

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## **DETAILED ACTION**

1. Claims 1-48 are pending.

## Restriction

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted:

- I. Claim 12 is drawn to composition comprising murine cells.
- II. Claim 13 is drawn to composition comprising murine cells.
- III. Claim 16 is drawn to a method of preparation a composition comprising purified murine cells.
- IV. Claim 16 is drawn to a method of preparation a composition comprising purified human cells.
- V. Claims 24-33 and 38 are drawn to a method of reconstitution hematopoiesis in a subject.
- VI. Claims 34-37 are drawn to a method of promoting the proliferation or differentiation of a hematopoietic stem cells in a subject.
- 3. Claims 1-11,14,39-46 and 48 link inventions of Groups I-II and Claims 15, 18-23 link inventions of Groups III and IV. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 1-11,14,39-46 and 48 or 15, 18-23. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction

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requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

4. The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

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As was also found in the International Search Report, the Invention of Group I was found to have no special technical feature that defined the contribution over the prior art of WO 01/11011 (IDS). WO' 011 teaches a composition of murine cells that are characterized as CD34<sup>+</sup> and CD105<sup>+</sup>.

Since Applicant's Inventions do not contribute a special technical feature when viewed over the prior art they do not have a single general inventive concept and so lack unity of invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 6. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840 The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571/272-0841.

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The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAIL BELYAVSKYI, PH.D. PATENT EXAMINER

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